

Amendments To The Claims:

Please amend the claims as shown.

1 – 18 (canceled)

19. (new) A metallic protective layer, comprising:

11.5 to 20.0 % chromium (wt%);

0.3 to 1.5 % silicon (wt%);

0.0 to 1.0 % aluminum (wt%);

0.0 to 0.7 % yttrium (wt%) or at least one metal selected from the group consisting of scandium and the rare earth elements; and

remainder iron and production-related impurities.

20. (new) The metallic protective layer as claimed in claim 19, further comprising 0.0 to 0.7 % yttrium (wt%) and at least one metal selected from the group consisting of scandium and the rare earth elements.

21. (new) The metallic protective layer as claimed in claim 20, wherein the metallic protective layer comprises:

12.5 to 14.0% chromium;

0.5 to 1.0% silicon;

0.1 to 0.5% aluminum.

22. (new) A layer system, comprising:

a metallic substrate; and

a metallic protective layer comprising:

11.5 to 20.0 % chromium (wt%),

0.3 to 1.5 % silicon (wt%),

0.0 to 1.0 % aluminum (wt%),

0.0 to 0.7 % yttrium (wt%) and at least one metal selected from the group consisting of scandium and the rare earth elements, and

remainder iron and production-related impurities.

23. (new) The layer system as claimed in claim 22, wherein the substrate is ceramic or an iron-base, nickel-base or cobalt-base superalloy.

24. (new) The layer system as claimed in claim 23, wherein the metallic protective layer is ferritic.

25. (new) The layer system as claimed in claim 24, wherein the metallic protective layer and the substrate are ferritic and the protective layer bonds to the substrate by adhesion.

26. (new) The layer system as claimed in claim 25, wherein the layer system is not diffusion treated.

27. (new) The layer system as claimed in claim 26, wherein the coefficients of thermal expansion of the ferritic protective layer and of the ferritic substrate are within 10% of each other.

28. (new) The layer system as claimed in claims 27, wherein the substrate is 1% CrMoV steel or a 10 to 12% chromium steel.

29. (new) The layer system as claimed in claims 27, wherein the substrate is selected from the group consisting of: 30CrMoNiV5-11, 23CrMoNiWV8-8, G17CrMoV5-10, G17CrMo9-10, X12CrMoWVNbN10-1-1, GX12CrMoWVNbN10-1-1, and GX12CrMoVNbN9-1.

30. The layer system as claimed in claim 29, wherein a zirconium oxide based thermal barrier coating is applied to the metallic protective layer to form a turbine component.

31. (new) The layer system as claimed in claim 30, wherein the turbine component is selected from the group consisting of: a turbine blade, a turbine vane, a housing part, a region of a housing, and a combustion chamber lining.

32. (new) The layer system as claimed in claim 31, wherein the protective layer thickness is between 100 µm and 300 µm.

33. (new) The layer system as claimed in 32, wherein the layer system is suitable for exposure to a temperature of up to 950°C.

34. (new) A high temperature gas turbine component, comprising:  
a metallic or ceramic substrate; and  
a metallic protective layer comprising:  
11.5 to 20.0 % chromium (wt%),  
0.3 to 1.5 % silicon (wt%),  
0.0 to 1.0 % aluminum (wt%),  
0.0 to 0.7 % yttrium (wt%) and at least one metal selected from the group consisting of scandium and the rare earth elements, and  
remainder iron and impurities.

35. (new) The component as claimed in claim 34, wherein the component substrate is a iron-based, nickel-based or cobalt-based super alloy.

36. (new) The component as claimed in claim 35, wherein the component is selected from the group consisting of: a turbine blade, a turbine vane, a housing part, a region of a housing, and a combustion chamber lining.

37. (new) The component as claimed in claim 36, wherein the metallic protective layer thickness is between 100 µm and 300 µm.

38. (new) The component as claimed in claim 37, wherein the metallic protective layer comprises:

12.5 to 14.0% chromium;

0.5 to 1.0% silicon;

0.1 to 0.5% aluminum.